

Q 1

A body is moving in a circle at constant speed. Which statement is true?

A

The resultant force acts towards the centre of the circle

B

There is no resultant force

C

The resultant force acts away from the centre of the circle

D

none of these

[Previous Question](#)

[Next Question](#)

Q2

What is the unit of decay constant?

A second

B minute

C hour

D $(\text{sec})^{-1}$

1

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q3

The radiation hazards are due to

A

radioactive elements

B

non radioactive elements

C

any of a or b

D

there are no radiation hazards

2

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 4

If the speed of the body is doubled, then

A

KE doubled

B

PE doubled

C

momentum doubled

D

acceleration is doubled

3

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 5

Volts / Ampere = _____

A

Ohm

B

Ohm meter

C

Pascal

D

None of them

4

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 6

The unit of electric field strength is:....

A

 V/C

B

 N/C

C

 N/V

D

 $N\ m$

5

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 7

The principle behind the working of cathode ray oscilloscope is

A

oscillation

B

half wave rectification

C

full wave rectification

D

none of these

6

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 8

The negative sign in $F = -k.x$, indicates that:

A F is directed opposite to x

B F is directed along x

C F is always equal to x

D none of these

7

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 9

The efficiency of petrol engine is:....

A

10% to 25%

B

25% to 30%

C

30% to 40%

D

40% to 50%

8

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 10

The acceleration of a moving object can be defined as:...

- A rate of change in speed
- B rate of change in velocity
- C rate of change in distance
- D rate of change in displacement

9

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 11

X' is a rectangular coil consisting of a large number of turns of copper wire wound over a soft iron core in an a.c. generator. Identify X

A Slip rings

B Armature

C Copper brushes

D Field magnet

10

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 12

A car of mass M is moving with speed v . The brake of mass m and specific heat capacity c , is used to stop the car. If half of the kinetic energy of the car is absorbed by the brake, then what is the increase in temperature of the brake?

A $Mv^2 \text{ ----- } 4mc$

B $Mv^2 \text{ ----- } 2mc$

C $mv^2 \text{ ----- } 4Mc$

D $mv^2 \text{ ----- } 2Mc$

11

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 13

Which surface will absorb more light

A yellow painted

B blue painted

C white painted

D black painted

12

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 14

SI Unit of voltage is?

A

Coulomb

B

Volts

C

Ampere

D

newton's Meter

13

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 15

The number of vibrations executed in one second is called:

A

Period

B

Frequency

C

amplitude

D

wavelength

14

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 16

The speed of sound in Rubber, butyl is 1830 m/s. If its density is 1.35 g/cm^3 then its elastic modulus would be:

A $4.5 \times 10^6 \text{ Pa}$

B $45 \times 10^6 \text{ Pa}$

C $4.5 \times 10^8 \text{ Pa}$

D $5 \times 10^6 \text{ Pa}$

15

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 17

A stone of mass 1 kg dropped from a height of 10m with the speed of 14 m/s, approximate kinetic energy is

A 10 J

B 0 J

C 100 J

D 1000 J

16

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 18

the force that keeps the body moving in circular motion is:

A

centripetal force

B

centrifugal force

C

force of gravity

D

none of these

17

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 19

The Ozone is a isotope of

A

O

B

H

C

Cl

D

none of these

18

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 20

Which one of the following does not have negative temperature coefficient?

A Aluminium

B Paper

C Rubber

D Mica

19

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 21

$1/C_{\text{equ}} = 1/C_1 + 1/C_2 + 1/C_3 + \dots + 1/C_n$ is the combination in

A Series

B Parallel

C Both of them

D None of them

20

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 22

Radiation can cause

A

burning

B

cancer

C

flu

D

all of these

21

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 23

Three charges $+3q$, $+q$ and Q are placed on a straight line with equal separation. In order to make the net force on q to be zero, the value of Q will be

A $3q$ B $2q$ C $4q$ D $5q$

22

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 24

It is difficult to recognize the beats if the difference between the frequencies of the two sounds is more than:

A 10 Hz

B 3 Hz

C 20 Hz

D 2000 Hz

23

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 25

Peak voltage in the output of full wave rectifier is 10V so dc component of output voltage is

A

$10\sqrt{2}$

B

$20/\sqrt{2}$

C

$20/\pi$

D

20π

24

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 26

The internal energy change in system that has absorbed 2kcal of heat and done 500J of work is

A 8900J

B 8800J

C 7900J

D 7500J

25

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 27

A set of Atoms in an excited state decays

A in any general state with lower energy

B In any state when excited by electric field

C In any state when excited by magnetic field

D None of these

26

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 28

In gold foil experiment incident radiation on gold nuclei were scattered by

A neutrons

B electrons

C nucleus

D neutrons

27

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 29

Self inductance varies with the applied current in coil as

A I^2 B $1/I$ C I

D remains unchanged

28

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 30

If the system goes from two different paths to same final state then Q_1 and W_1 and Q_2 and W_2 are heat absorbed and work done then

A

$$Q_1 = Q_2$$

B

$$W_1 = W_2$$

C

$$Q_1 + W_1 = Q_2 + W_2$$

D

$$Q_1 - W_1 = Q_2 - W_2$$

29

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 31

Sun spectra also has dark lines in pattern which corresponds to

A absorption

B emission

C release

D free particle

30

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 32

X-ray is the reverse process of :

A

Pair production

B

Compton effect

C

Photoelectric effect

D

A & B are correct

31

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 33

Find the radius of the circular path if a car is moving with a velocity of 25 m/s and has a centripetal acceleration of 10 m/s^2 ?

A 72.3 m/s

B 30 m/s

C 62.5 m/s

D 52.5 m/s

32

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 34

Find the Lorentz force of a charge 2.5C having an electric field of 5 units and magnetic field of 7.25 units with a velocity 1.5m/s.

A 39.68

B 68.93

C 89.39

D 63.98

33

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 35

Spectra corresponding to sodium vapour lamp is

A

band spectra

B

line spectra

C

emission spectra

D

absorption spectra

34

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 36

A stationary wave is set up in a pipe of length L , which is open from one end. There are three nodes. How many antinodes are there in the stationary wave?

A 2

B 3

C 4

D 6

35

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 37

A full wave rectifier passes _____ into positive cycles

A

lower half cycle

B

upper half cycle

C

both cycles

D

none of them

36

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 38

Acceleration of earth around sun in its orbit is always

A tangential

B radial

C zero

D none of these

37

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 39

Protons and neutrons are composed of smaller particles called

A

Quarks

B

baryons

C

bosons

D

photons

38

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 40

The specific resistance of a conductor increases with :

A increase in temperature

B increase in cross-sectional area

C decrease in length

D decrease in cross-sectional area

39

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 41

Rockets use thrust forces which produces

A

constant acceleration

B

variable acceleration

C

constant velocity

D

linearly varying velocity

40

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 42

In a battery eliminator, the 220 Volts mains supply is stepped down to 11 volt, what is the transformation ratio?

A 1:20

B 20:1

C 1:2

D 2:5

41

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 43

A particle of mass 2 kg is in circular motion with velocity 5 m/s^2 , radius of path is 2 m what will be the work done by the centrifugal force in half cycle

A 100 J

B -100 J

C 0

D 50 J

42

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 44

A stationary wave setup in a pipe closed at one end, only odd harmonics are generated, which are given by the equation

A $f_n = (n \cdot v) / (4 \cdot l)$ where $n = 1, 3, 5, \dots$

B $f_n = (n \cdot v) / (4 \cdot l)$ where $n = 1, 3, 5, \dots$

C $f_n = (n \cdot v) / (4 \cdot l)$ where $n = 1, 2, 3, 4, 5, \dots$

D $f_n = (n \cdot v) / (4 \cdot l)$ where $n = 1, 2, 3, 4, 5, \dots$

43

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 45

An electron is moving along the line of force in magnetic field B with velocity u , then maximum force acting on the charge is given by

A Bue

B Bq/u

C Bu/q

D 0

44

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 46

The increase in the capacitance of a capacitor due to the presence of dielectric is due to:...

A electric polarization of dielectric

B density of dielectric

C volume of dielectric

D magnetic dipole moment

45

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 47

A full wave rectifier is operating from 50 Hz mains. Fundamental frequency of ripple will be

A 100 Hz

B 25Hz

C 50Hz

D 200Hz

46

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 48

4000 Coulomb charges were passing from the wire for about 12 seconds. Estimate the current during this process?

A 333.3 ampere

B 333.33 volts

C 666.67 ampere

D None of them

47

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 49

The linear momentum is increased by 10%, percentage change in the kinetic energy will be

A 0.21

B 0.11

C 0.22

D 0.1

48

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 50

Internal resistance of a battery is _____ ohm, if, $E=10V$, $V_t=9V$, $I=1A$

A 1

B 0.1

C 0.01

D None of these

49

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 51

If radius is four times angular velocity is two times the linear velocity becomes

A 4

B 6

C 8

D none of these

50

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 52

Consider a car is travelling for one hour. Which of the following trips have the same average velocity?

A

car travels 20 km due east and car travels 70 km due east

B

car travels 40 km due east, then turns around and travels 20 km due west and car travels 20 km due east

C

car travels 70 km due east and car travels 40 km due east, then turns around and travels 20 km due west

D

car travels 30 km due west, then turns around and travels 30 km due east and car travels 40 km due east, then turns around and travels 20 km due west

51

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 53

The energy input to an engine is 60 J, and the work it performs is 15 J. What fraction of the energy input is expelled to the cold reservoir?

A 0.25

B 75%

C 1

D impossible to determine

52

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 54

If $^{238}_{94}\text{Pu}$ decay an alpha particle the new atomic number and mass number are

A 234,90

B 234,92

C 231,97

D none of these

53

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 55

The photon when scattered from mirror its momentum becomes

A

double

B

half

C

remain same

D

zero

54

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 56

If the wavelength of a wave is 20 cm and its time period is T . What is the distance travelled by a crest on the wave in $1.25T$?

A 30 cm

B 25 cm

C 15 cm

D 40 cm

55

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 57

Lymph nodes may be located in the human body in the tissues of the:

A

stomach

B

thyroid gland

C

brain

D

groin and neck

56

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 58

The part of chloroplast where CO₂ is fixed to manufacture sugar is?

A

stroma

B

grana

C

thylakoid

D

outer membrane

57

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 59

Which of the following is not a component of HIV?

A

RNA

B

protein

C

ribosomes

D

reverse transcriptase

58

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 60

Garden snail belongs to which class of Mollusca?

A Gastopoda

B Cephalopoda

C Myriapoda

D None of them

59

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 61

What is the function of the fluid secreted by sertoli cells?

A provides liquid medium

B Provides protection to sperms

C Provides nourishment to sperms

D All A,B and C are correct

60

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 62

Which of the following structure is not present in all the bacteria?

A cell membrane

B chromatin

C ribosome

D capsule

61

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 63

The protein contains ____ bonds

A

Inorganic bonds

B

peptide bonds

C

glucosidic bonds

D

covalent bonds

62

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 64

Which of the following is not found in series protostomia?

A

Annelida

B

Arthropoda

C

Mollusca

D

Echinodermata

63

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 65

Spinal cord is the part of the:

A Peripheral nervous system

B Central nervous system

C Autonomic nervous system

D None of these

64

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 66

Amoeboid movements and movement of cyclosis is due to?

A

microfilaments

B

microtubules

C

intermediate filaments

D

cytoskeleton

65

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 67

Vascular Cambium initially appears as actively dividing cells between?

A

Primary Xylem and secondary xylem

B

Primary xylem and secondary phloem

C

Secondary xylem and secondary phloem

D

Primary xylem and primary phloem

66

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 68

The inherited instructions an organism carries within its genome is it's?

A phenotype

B clone

C recombination

D genotype

67

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 69

The inflammation of bronchi or bronchioles is known as

A emphysema

B asthma

C pneumonia

D bronchitis

68

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 70

The path taken by the nerve impulses in a reflex is called a

A Nerve cell

B reflex arc

C Receptor cells

D Mixed nerve

69

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 71

In photosynthesis dark reaction, is called so because

- A It occurs in dark.
- B It does not require light energy.
- C It cannot occur during daytime.
- D It occurs more rapidly at night.

70

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 72 Two species can avoid competition, and better use the environment's resources by occupying different?

A adaptations

B polymorphism

C niches

D specialization

71

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 73

Which lobe is involved in short-term memory, speech, musical rhythm and some degree of smell recognition?

A Frontal

B Parietal

C Temporal

D Occipital

72

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 74

Each type of the principal type of sensation that we can experience e.g pain touch sight sound and so for this called a modality of?

A regulation

B coordination

C control

D sensation

73

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 75

In a bacterial cell, plasma membrane with all things present within it is called

A Cytoplasmic matrix

B Cytoplasm

C Protoplast

D Cell Structure

74

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 76

A mother is homozygous for blood type A and a father has blood type AB. Which of the following could describe their child's blood type?

A A

B O

C A or AB

D B

75

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 77

All of the following are continuously varying traits except?

A

Kernel colour in wheat

B

Skin colour in humans

C

Height in humans

D

Tongue rolling in humans

76

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 78

Octopus belongs to phylum mollusca because:

A

It has suckers and tentacles.

B

It has a soft body covered by a shell.

C

It has a soft, unsegmented body with a thin, flexible internal shell.

D

It has a soft, segmented body with a head and a foot.

77

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 79

The main unit of the thick filament is:

A

myofibril

B

Z-line

C

myosin

D

actin

78

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 80

All chromosomes other than sex chromosomes are called:

A Autosomes

B Allosomes

C Microsomes

D None of them

79

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 81

What is the correct sequence of steps in cell fractionation?

A Homogenization, centrifugation, separation.

B Separation, homogenization, centrifugation.

C Centrifugation, homogenization, separation.

D Homogenization, separation, centrifugation.

80

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 82

Biomolecules such as starch cellulose and glycogen yield which of the following upon hydrolysis?

A Maltose

B Sucrose

C Glucose

D Galactose

81

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 83

Reflex action is a type of:

A

Voluntary action

B

Involuntary action

C

Saltatory conduction

D

None of these

82

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 84

Which of the following types of bacterial reproduction is most similar to mitosis?

A

transduction

B

transformation

C

binary fission

D

conjugation

83

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 85

Vitamin which doesn't act as a coenzyme is?

A

vitamin c

B

vitamin b

C

vitamin b1

D

vitamin b2

84

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 86

Oxaloacetate combines with which molecule to enter the krebs cycle again?

A

ATP

B

NADPH

C

FAD

D

Acetyl coA

85

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 87

All of the following are true for platyhelminthes except?

A

Flatworms

B

Triploblastic

C

Bilateral symmetry

D

Coelomate

86

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 88

Which is an organelle that helps the sperm to penetrate the ovum?

A

Megalis

B

Zona pellucida

C

Acrosome

D

both a and b

87

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 89

Acrosome is filled with which of the following?

A

lipids

B

hormones

C

digestive enzymes

D

all of these

88

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 90

The total number of amino acids that have been found in tissues and cells are?

A 250

B 200

C 20

D 170

89

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 91

Vitamins which are not stored in body are called?

A

fat soluble vitamins

B

minerals

C

fats

D

water soluble vitamins

90

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 92

What is reduced during sugar production in photosynthesis?

A

ATP

B

NADH

C

carbon dioxide

D

oxygen

91

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 93

What is the basic unit of muscle fiber?

A

myofibril

B

Z-line

C

M-line

D

Fibroin

92

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 94

The glycine generated during photorespiration enters:

A Glyoxysomes

B Mitochondria

C Peroxisomes

D Ribosomes

93

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 95

Radula is a characteristic feature of:

A Myriapods

B Molluscs

C Echinoderms

D Cnidaria

94

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 96

Each nasal cavity is subdivided into --- passageways in man.

A 1

B 2

C 3

D 4

95

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 97

The phage that causes the lysogenic cycle is?

A

virulent phage

B

lytic phage

C

temperate phage

D

both a and b

96

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 98

Polymorphism is a characteristic feature of which group of animals?

A

Cnidaria

B

Annelida

C

Platyhelminthes

D

Echinodermata

97

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 99

It is suspected that this cell is prokaryotic. The presence of which of these cell structures would confirm that the cell is prokaryotic?

A Cytoplasm

B ribosomes

C flagella

D Peptidoglycan cell wall

98

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 100

Mad cow disease is caused by which of the following?

A prion

B virus

C bacteria

D both a and b

99

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 101

Select the function/s of male reproductive system:

- A To produce enzymes
- B to transfer sperms to the female
- C to produce sperms
- D Both B and C are correct

100

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 102

The animals in which there are separate male and female individuals are called?

A unisexual

B bisexual

C asexual

D hermaphrodite

101

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 103

The wings of a bird and the wings of a beetle are considered?

A taxonomic

B phylogenetic

C homologous

D analogous

102

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 104

High fever, cold, and cough with sputum production are symptoms of

A

emphysema

B

asthma

C

pneumonia

D

bronchitis

103

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 105

How many compounds of tar of tobacco smoke are included in causing cancer?

A 2

B 5

C 8

D More than 10

104

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 106

The stretch reflex, the Golgi tendon reflex, the crossed extensor reflex, and the withdrawal reflex are included in:

- A stretch reflex
- B spinal reflex
- C golgi tendon reflex
- D Crossed Extensor Reflex

105

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 107

For every 3 molecules of carbon dioxide in Calvin cycle how much G3P is produced?

A

6

B

2

C

4

D

8

106

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 108

The brain part involved in conscious activities is:

A cerebral cortex

B limbic system

C Brain stem

D thalamus

107

SKIPPED QUESTIONS ⤴

< Previous Question

Next Question >

Q 109

Which of the following is NOT a method bacteria use for genetic recombination?

A Conjugation

B Transformation

C Transduction

D Binary Fission

108

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 110

Which of the following is FALSE about concerning enzymes?

- A Substrates must bind the enzyme's active site in order to initiate its effects
- B Enzymes increase both the forward rate and reverse rate of a reaction
- C Enzymes are not destroyed in a reaction and can be used in the same reaction countless times
- D Enzymes increase the amount of product created in a reaction

109

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 111

What is the chemical characteristic of auxins?

A Indole propionic acid

B Indole carboxylic acid.

C Indole acetaldehyde

D Indole acetic acid.

110

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 112

Assuming that blood type is not a sex-linked trait, what is the probability that a mother with genotype "A/O" and a father with genotype "A/B" will have a child with type B blood?

A 50%

B 25%

C 75%

D 1

111

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 113

The experiment that simulated conditions thought to be present on the early earth

A Hershey Chase experiment

B Geiger Marsden experiment

C Schiehallion experiment

D Miller-Urey experiment

112

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 114

A long polypeptide that is cut up to generate several small proteins

A

polyprotein

B

polymerase

C

polyisomerase

D

none of these

113

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 115

Which hormone is involved in opening and closing of stomata?

A citric acid

B Oxaloacetic acid

C abscisic acid

D None of these

114

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 116

The oldest mineral discovered so far is which of the following, which dates back to 4.4 billion years.

A iron

B zircon

C diamond

D cadmium

115

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 117

A human cell from the ovary has 22 chromosomes and an X chromosome. It is which of the following?

A egg

B sperm

C somatic cell

D gamete

116

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 118

Which molecule passes the mitochondrial membrane to begin the krebs cycle?

A

ATP

B

ADP

C

NADH

D

Acetyl coA

117

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 119 Secondary cell wall is absent in _____.

A Xylem

B Phloem

C Meristems

D All of them possess secondary cell walls.

118

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 120

A common polyhedral capsid shape of viruses is a?

A pentagon

B cube

C icosahedron

D pyramid

119

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 121

Ascaris is characterized by which of the following?

- A Presence of true coelom and metamerism
- B Presence of true coelom but the absence of metamerism
- C Absence of true coelom but the presence of metamerism
- D Absence of true coelom and metamerism

120

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 122

Normal human blood is about:

- A 15 ml/100 ml of blood
- B 19.6 ml/100 ml of blood
- C 20 ml/ 100 ml of blood
- D 200 ml/100 ml of blood

121

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 123

Uterus opens into the vagina through:

A

uterus

B

cervix

C

oviduct (fallopian tube)

D

ovary

122

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 124

Which statement describes an incorrect difference between a plant cell and a bacterial cell?

A

Bacterial cell has 70S ribosomes whereas a plant cell has 80S ribosomes.

B

Bacterial cell divides by binary fission whereas a plant cell divides by mitosis.

C

Bacterial cells do not have a nuclear membrane whereas plant cells do.

D

None of the above.

123

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 125

BF_3 is an electron pair acceptor and complete its octet by accepting

A an electron

B pair of electron

C 3 electron

D 4 electron

124

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 126

Rate determining step of a chemical reaction which occur in more than one step depends upon the

- A fastest step
- B Slowest Step
- C catalyst used
- D Temperature of reaction

125

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 127

The conversion of Nitrogen to ammonia or nitrogenous compounds is called

A Nitrification

B Nitrogen Fixation

C Denitrification

D Assimilation

126

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 128

When an electron remains between orbit, its momentum is

A dequantized

B quantized

C emitted

D changes always

127

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 129

Nucleophilic addition reactions of carbonyl compounds can be catalyzed by_____?

A Acid

B Base

C Water

D Both acid and base

128

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 130 The substance that is attached to the enzyme at specific place and converted into product is called as?

A Co-factor

B Iso-zyme

C Active site

D Substrate

129

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 131

Which type of movement is shown by the atoms of the solid?

A Translational motion

B Vibrational motion

C Rotational motion

D Linear motion

130

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 132 The product in S_N2 reaction is formed with _____?

A Inversion in configuration

B Retention in configuration

C 50% retention in configuration

D 50% inversion in configuration

131

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 133

Which alkali metal only combine with Nitrogen?

A Li

B Fr

C Cs

D K

132

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 134 Fossil fuels are produced due to _____?

- A Fast decomposition of organic matter
- B Decomposition of plants
- C Decomposition of animals
- D Biochemical decomposition of dead organic matter

133

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 135 Intermolecular forces are also called as _____?

A Chemical bond

B Intramolecular force

C Van der waal forces

D Strong forces

134

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 136

The break down of molecular ions from natural products give important information about

A size

B position

C shape

D structure

135

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 137

Which of the following gives Markovnikov's product with Propene?

A HBr

B $\text{H}_2\text{SO}_4/\text{H}_2\text{O}$

C HBr

D All of these

136

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 138

Representing Reaction in Voltaic cell symbol used for salt bridge is

A $\cap$ B $\vdots$ C $\equiv$ D $\parallel$

137

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 139

ΔH_f° is the standard enthalpy change of which of the following process?

A When 1 mol of compound formed from its elements

B When 1 mole of substance is dissolved to make a solution

C When 1 mole of Reactants are converted into products

D When 1 mole of salt is formed

138

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 140 Nucleoprotein are_____ proteins which transfer heredity information from one generation to other.

A Transport proteins

B Structural proteins

C Genetic proteins

D Regulatory proteins

139

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 141 The strength of London forces depends on size of

A electrons

B electronic cloud

C lone pair on an atom

D poles of atoms

140

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 142

Coordination number of Na in NaCl is

A

4

B

6

C

8

D

3

141

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 143

Which of the following is typical transition metal?

A Sc

B Y

C Cd

D Co

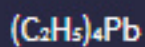
142

SKIPPED QUESTIONS  Previous QuestionNext Question 

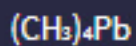
Q 144

Alkyl halide react with Sodium lead alloy, which of the following is correct formula of tetramethyl lead?

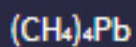
A



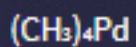
B



C



D



143

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 145

The unit of electron affinity is

A J/mol

B KJ/mol

C KJ/atom

D J/atom

144

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 146

Maximum Hydrogen bonding is found in

A

chlorine

B

Ammonia

C

water

D

hydrochloric acid

145

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 147

Addition of ammonia and its derivative catalyze by _____?

A Acid

B Base

C Oxidizing agents

D Pd/C

146

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 148

Which of the following is an example of Monocarboxylic acid ?

A Oxalic acid

B Methanoic acid

C Glutaric acid

D Adipic acid

147

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 149

The rate equation is an

A Experimental expression

B Theoretical expression

C based on Hit and Trail

D All Of these

148

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 150

Polymerization of ethene produces which of the following polymer?

A

Polyvinyl

B

Polethyl

C

Polyethylene

D

Polyethoxy

149

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 151

Which of the species has a permanent dipole moment?

A SF_4 B SiF_4 C BF_3 D XeF_4

150

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 152

The geometrical isomers in which similar groups on double bond carbon atoms are present on opposite sides are called as___?

A Trans isomers

B Alkanes

C Cis isomer

D Positional isomers

151

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 153 Kekule's formula shows benzene _____?

A Highly saturated

B Highly unsaturated

C Give Substitution reaction

D Give elimination reaction

152

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 154

The first ionization potential of alkaline earth metal is greater than alkali metals because

- A They are more reactive
- B They have greater atomic radii
- C They have smaller atomic sizes
- D All

153

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 155

The value of energy obtained for the electron in the n th orbit of hydrogen atom is in

- A Joules
- B Joules/atom
- C Kilojoules
- D Kilojoules/atom

155

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 156

Formaldehyde polymerizes to form ?

A

Bakelite

B

Paraldehyde

C

Metaformaldehyde

D

All of these

155

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 157

Unit for rate of reaction is

A

Mole / litre

B

Moles / gram

C

Moles / Second

D

 $\text{moles/dm}^3 \text{ s}^{-1}$

156

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 158

Which of the carboxylic acid is used in medicine as local irritant;

A formic acid

B acetic acid

C benzoic acid

D amino acid

157

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 159

One atmosphere is the force of _____ long column of mercury on an area of 1cm^2 at c

A 76cm

B 76mm

C 76dm

D 76pm

158

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 160

A naphthol has

A

Alcoholic OH

B

-CHO

C

-COOH

D

Phenolic - OH

159

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 161

According to Bohr's theory Electron should move _nearer to nucleus in an orbit of _radii

A slower, smaller

B faster, smaller

C faster, bigger

D slower, bigger

160

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 162

Which of the following is a poor leaving group in nucleophilic substitution reactions?

A Cl^-

B Br^-

C I^-

D $^- \text{OH}$

161

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 163 Proteins are _____ in structure ?

A Two dimensional

B Three dimensional

C Uni-dimensional

D None of these

162

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 164

Reaction of Sodium with water is an example of

A Reversible reaction

B Endothermic

C Irreversible

D Slow

163

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 165

How many times a covalent bond is stronger than H-Bond?

A 10

B 12

C 20

D 2

164

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 166

Cyclic compounds consist of except?

A

Alicyclic

B

Aromatic

C

Acyclic compounds

D

Carbocyclic compounds

165

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 167

Chemical reactions involve change in heat energy and the study is called

A Electrochemistry

B Biochemistry

C Thermochemistry

D Analytical Chemistry

166

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 168

Number of molecules in one dm³ of water will be almost

A

 $18 \times 6.02 \times 10^{23}$

B

 $55.6 \times 6.022 \times 10^{23}$

C

 $18 \times 6.2 \times 10^{23}$

D

 $2 \times 6.2 \times 10^{23}$

167

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 169

In Down Cells Cathode is made up of

A

Graphite

B

Copper

C

Iron

D

Inert material

168

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 170

number of isomers of C_4H_{10} is:

A 2

B 4

C 6

D 5

169

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 171 Different type of hybridization takes place depending upon _____ of orbital's participating in hybridization

A number

B nature

C structure

D both A & B

170

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 172

f-block elements are called ?

A

inner transition

B

outer transition

C

both

D

none

171

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 173

Ethyne has which hybridization?

A

 sp^3

B

 sp^2

C

 sp

D

 sp^2d

172

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 174 Carboxylase are example of which type of enzyme:

A Hydrolases

B Lyases

C Transferases

D Ligases

173

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 175

The most symmetrical crystal system

A

triclinic

B

tetragonal

C

cubic

D

rhombohedral

174

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 176

At which of the following temperature standard enthalpies are measured?

A 373K

B 298K

C 350K

D All of these

175

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 177 First step in the S_N1 reaction is _____?

A Dehydration

B Protonation

C Ionization

D Attack of nucleophile and departure of leaving group

176

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 178

Iodoform test is performed to distinguish between

- A alcohols and phenols
- B methanol and ethanol
- C primary and secondary alcohols
- D phenols and ethers

177

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 179

Boiling point of hydrides of 4th period is larger than _____?

A 5th period

B 3rd period

C 6th period

D 7th period

178

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 180

The peaks forms in a mass spectrograph shows number of _____ of an element

A electrons

B isotopes

C protons

D neutrons

179

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Demonstrate control of tenses and sentence structure

Q 181 It ____ now.

A rains

B is raining

C was raining

D has been raining

180

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate control of tenses and sentence structure

Q 182

John _____ to be a doctor.

A

wants

B

wanting

C

is wanting

D

have wanted

181

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Comprehend key vocabulary

Q 183

How are you doing? I'm _____ to meet you.

A calm

B lovely

C pleased

D helpful

182

SKIPPED QUESTIONS  Previous QuestionNext Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 184

I found this bangle (A) while digging (B) in the backyard. (C) I don't know who it belonged to. (D)

A

I found this bangle

B

while digging

C

in the backyard.

D

I don't know who it belonged to.

183

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate control of tenses and sentence structure

Q 185

Last Saturday my father _____ (take) my friends and me to the circus.

A take

B took

C will take

D has taken

184

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Demonstrate control of tenses and sentence structure

Q 186

Get lost.

A

Declarative

B

Imperative

C

Interrogative

D

Exclamatory

185

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of subject-verb agreement

Q 187

A lot of houses _____ collapsed due to the the storm.

A has

B are

C have

D were

186

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions

Q 188

In most countries, children start primary school _____ the age of six.

A in

B on

C at

D to

187

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Comprehend key vocabulary

Q 189

jovial

A

merry

B

sad

C

sombre

D

laborious

188

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 190

Choose the correct sentence.

A

My g.p. is called Dr. Sajjad.

B

My g.p. is called Dr. sajjad.

C

My G.P. is called Dr. Sajjad.

D

My G.P, is called Dr. Sajjad.

189

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 191

Choose the correct spelling of the word

A benifet

B benefet

C benefit

D benifit

190

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate control of tenses and sentence structure

Q 192 He _____ he is above playing with us.

A think

B thinks

C is thinking

D has thinking

191

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of subject-verb agreement

Q 193 She _____ her office by 9 a.m. daily.

A reach

B reaches

C reached

D reaching

192

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate control of tenses and sentence structure

Q 194

It was so quiet you _____ (can) hear a pin drop.

A can

B could

C shall

D will

193

SKIPPED QUESTIONS  Previous QuestionNext Question 

Demonstrate control of tenses and sentence structure

Q 195

She is a successful writer.

A Declarative

B Imperative

C Interrogative

D Exclamatory

194

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 196

Choose the correct spelling of the word

A

excellant

B

excalant

C

excellent

D

excallent

195

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 197 Everyone who was injured (A)/ in the accident (B)/ was taken (C)/ to the hospital (D).

A Everyone who was injured

B in the accident

C was taken

D to the hospital

196

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions

Q 198

The book is about _____ man who lives on _____ small island.

A a... an

B a...a

C a....the

D an...an

197

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 199 Choose the correct sentence.

A Mrs Sajjad: who was sitting behind the desk, gave me a big smile.

B Mrs Sajjad who was sitting behind the desk gave me a big smile.

C Mrs Sajjad, who was sitting behind the desk, gave me a big smile.

D Mrs Sajjad, who was sitting behind the desk gave me a big smile?

198

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate control of tenses and sentence structure

Q 200

Choose the correct sentence.

A I did not accompanied them.

B I do not accompanied them.

C I does not accompany them.

D I did not accompany them.

199

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Statements and Conclusions

Q 201

Statement. All clocks are watches. Some clocks are alarms. Conclusion I Some alarm watches. II All watches are alarm.

A Only conclusion (I) follows

B Only conclusion (II) follows

C Both conclusions follow

D Both of them do not follow

200

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Complete the series

Q 202

Which letter lies in the middle of word Quality?

A

L

B

A

C

U

D

Y

201

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Statements and Actions

Q 203

Statement The Management of School M has decided to give free breakfast from next academic year to all the students in its primary section through its canteen even though they will not get any government grant. Courses of Action (I) The school will have to admit many poor students who will seek admission for the next academic year. (II) The canteen facilities and utensils have to be checked and new purchases to be made to equip it properly. (III) Funds will have to be raised to support the scheme for years to come.

A Only II and III follows

B Only III and I follow

C Only I and II follow

D Only I follows

202

SKIPPED QUESTIONS 

Verbal Classification

Q 204

According to Oxfam report, Every Minute, _____ People Die of Hunger In The World?

A

10

B

11

C

15

D

Both A and B

203

SKIPPED QUESTIONS

< Previous Question

Next Question >

Series completion (Numbers/Letters)

Q 205

Complete the series BXM, EUP, HRS, _.

A XZY

B RPN

C VTU

D KOV

204

SKIPPED QUESTIONS

< Previous Question

Next Question >

Dependent Causes/ Independent Causes/

Q 206

I. Three ministers have quitted their job in Punjab. II. The ministers are not being accommodated with adequate resources.

- A Statement I is the cause and statement II is its effect.
- B Statement II is the cause and statement I is its effect.
- C Both statements I and II are independent causes
- D Both statements I and II are the effects of independent cause.

205

SKIPPED QUESTIONS

< Previous Question

Next Question >

Complete the series

Q 207

Complete the series A3.3, B6.6, C9.9, _____?

A

D13.4

B

D13.2

C

D13.1

D

D13.2

206

SKIPPED QUESTIONS

< Previous Question

Next Question >

Dependent Causes/ Independent Causes/

Q 208

Statement: Rural and semi urban areas in the country have been suffering due to load shedding for quite some time. If the government is not able to overcome the power crisis, load shedding will be extended even to the urban areas.

- A Statement I is the cause and statement II is its effect.
- B Statement II is the cause and statement I is its effect
- C Both the statements I and II are independent causes
- D Both the statements I and II are effects of some common cause

207

SKIPPED QUESTIONS

< Previous Question

Next Question >

Verbal Reasoning

Q 209

FESCO stands for _____

A

Faizabad Electricity Supply Company

B

Frontier Electricity Supply Company

C

Faisalabad Electric Supply Company

D

Federal Electric Supply Company

208

SKIPPED QUESTIONS

< Previous Question

Next Question >

Answer on Passage

Q 210

Children are in pursuit of a dog whose leash has broken. James is directly behind the dog. Ruby is behind James. Rachel is behind Ruby. Max is ahead of the dog walking down the street in the opposite direction. As the children and dog pass, Max turns around and joins the pursuit. He runs in behind Ruby. James runs faster and is alongside the dog on the left. Ruby runs faster and is alongside the dog on the right. Which child is directly behind the dog?

A James

B Ruby

C Rachel

D Max

209

SKIPPED QUESTIONS



Q1

A body is moving in a circle at constant speed. Which statement is true?

A

The resultant force acts towards the centre of the circle

B

There is no resultant force

C

The resultant force acts away from the centre of the circle

D

none of these

[< Previous Question](#)[Next Question >](#)



Q2

What is the unit of decay constant?

A

second

B

minute

C

hour

D

 $(\text{sec})^{-1}$ [< Previous Question](#)[Next Question >](#)



Q3 The radiation hazards are due to

A radioactive elements

B non radioactive elements

C any of a or b

D there are no radiation hazards

[← Previous Question](#)

[Next Question →](#)



Q4 If the speed of the body is doubled, then

A KE doubled

B PE doubled

C momentum doubled

D acceleration is doubled

[← Previous Question](#)

[Next Question →](#)



Q5

Volts / Ampere = _____

A

Ohm

B

Ohm meter

C

Pascal

D

None of them

[< Previous Question](#)[Next Question >](#)



Q6 The unit of electric field strength is:....

A V/C

B N/C

C N/V

D N m

[← Previous Question](#)

[Next Question →](#)



Q7

The principle behind the working of cathode ray oscilloscope is

A

oscillation

B

half wave rectification

C

full wave rectification

D

none of these

[< Previous Question](#)[Next Question >](#)



Q8 The negative sign in $F = -k.x$, indicates that:

A F is directed opposite to x

B F is directed along x

C F is always equal to x

D none of these

[← Previous Question](#)

[Next Question →](#)



Q9

The efficiency of petrol engine is:....

A

10% to 25%

B

25% to 30%

C

30% to 40%

D

40% to 50%

[← Previous Question](#)

[Next Question →](#)



Q10

The acceleration of a moving object can be defined as:...

A

rate of change in speed

B

rate of change in velocity

C

rate of change in distance

D

rate of change in displacement

[< Previous Question](#)[Next Question >](#)



Q11

X' is a rectangular coil consisting of a large number of turns of copper wire wound over a soft iron core in an a.c. generator. Identify X

A Slip rings

B Armature

C Copper brushes

D Field magnet

[← Previous Question](#)

[Next Question →](#)



Q12

Which surface will absorb more light

A

yellow painted

B

blue painted

C

white painted

D

black painted

Previous Question

Next Question



Q13

SI Unit of voltage is?

A

Coulomb

B

Volts

C

Ampere

D

newton's Meter

[← Previous Question](#)

[Next Question →](#)



Q14

The number of vibrations executed in one second is called:

A

Period

B

Frequency

C

amplitude

D

wavelength

[< Previous Question](#)[Next Question >](#)



Q15

The speed of sound in Rubber, butyl is 1830 m/s. If its density is 1.35 g/cm^3 then its elastic modulus would be:

A

 $4.5 \times 10^6 \text{ Pa}$

B

 $45 \times 10^6 \text{ Pa}$

C

 $4.5 \times 10^8 \text{ Pa}$

D

 $5 \times 10^6 \text{ Pa}$ [< Previous Question](#)[Next Question >](#)



Q16

A stone of mass 1 kg dropped from a height of 10m with the speed of 14 m/s, approximate kinetic energy is

A 10 J

B 0 J

C 100 J

D 1000 J

[← Previous Question](#)[Next Question →](#)



Q17

the force that keeps the body moving in circular motion is:

A

centripetal force

B

centrifugal force

C

force of gravity

D

none of these

Previous Question

Next Question



Q18

The Ozone is a isotope of

A

O

B

H

C

Cl

D

none of these

[< Previous Question](#)[Next Question >](#)



Q19

Which one of the following does not have negative temperature coefficient?

A

Aluminium

B

Paper

C

Rubber

D

Mica

[< Previous Question](#)[Next Question >](#)



Q20

Radiation can cause

A

burning

B

cancer

C

flu

D

all of these

Previous Question

Next Question



Q21

Three charges $+3q$, $+q$ and Q are placed on a straight line with equal separation. In order to make the net force on q to be zero, the value of Q will be

A

 $3q$

B

 $2q$

C

 $4q$

D

 $5q$ [< Previous Question](#)[Next Question >](#)



Q22

It is difficult to recognize the beats if the difference between the frequencies of the two sounds is more than:

A

10 Hz

B

3 Hz

C

20 Hz

D

2000 Hz

[← Previous Question](#)[Next Question →](#)



Q23

Peak voltage in the output of full wave rectifier is 10V so dc component of output voltage is

A

$10\sqrt{2}$

B

$20/\sqrt{2}$

C

$20/\pi$

D

20π

[◀ Previous Question](#)[Next Question ▶](#)



Q24

The internal energy change in system that has absorbed 2kcal of heat and done 500J of work is

A

8900J

B

8800J

C

7900J

D

7500J

[← Previous Question](#)[Next Question →](#)



Q25

A set of Atoms in an excited state decays

A

in any general state with lower energy

B

In any state when excited by electric field

C

In any state when excited by magnetic field

D

None of these

[< Previous Question](#)[Next Question >](#)



Q26

In gold foil experiment incident radiation on gold nuclei were scattered by

A

neutrons

B

electrons

C

nucleus

D

neutrons

[< Previous Question](#)[Next Question >](#)



Q27

If the system goes from two different paths to same final state then Q_1 and W_1 and Q_2 and W_2 are heat absorbed and work done then

A

$$Q_1 = Q_2$$

B

$$W_1 = W_2$$

C

$$Q_1 + W_1 = Q_2 + W_2$$

D

$$Q_1 - W_1 = Q_2 - W_2$$

[< Previous Question](#)[Next Question >](#)



Q28

Sun spectra also has dark lines in pattern which corresponds to

A

absorption

B

emission

C

release

D

free particle

[< Previous Question](#)[Next Question >](#)



Q29

X-ray is the reverse process of :

A

Pair production

B

Compton effect

C

Photoelectric effect

D

A & B are correct

[◀ Previous Question](#)

[Next Question ▶](#)



Q30

Find the radius of the circular path if a car is moving with a velocity of 25 m/s and has a centripetal acceleration of 10 m/s^2 ?

A

72.3 m/s

B

30 m/s

C

62.5 m/s

D

52.5 m/s

[< Previous Question](#)[Next Question >](#)



Q31

Find the Lorentz force of a charge 2.5C having an electric field of 5 units and magnetic field of 7.25 units with a velocity 1.5m/s .

A

39.68

B

68.93

C

89.39

D

63.98

[< Previous Question](#)[Next Question >](#)



Q32

Spectra corresponding to sodium vapour lamp is

A

band spectra

B

line spectra

C

emission spectra

D

absorption spectra

[◀ Previous Question](#)[Next Question ▶](#)



Q33

A stationary wave is set up in a pipe of length L , which is open from one end. There are three nodes. How many antinodes are there in the stationary wave?

A 2

B 3

C 4

D 6

[← Previous Question](#)[Next Question →](#)



Q34

Acceleration of earth around sun in its orbit is always

A

tangential

B

radial

C

zero

D

none of these

[< Previous Question](#)[Next Question >](#)



Q35

Protons and neutrons are composed of smaller particles called

A

Quarks

B

baryons

C

bosons

D

photons

[< Previous Question](#)[Next Question >](#)



Q36

The specific resistance of a conductor increases with :

A

increase in temperature

B

increase in cross-sectional area

C

decrease in length

D

decrease in cross-sectional area

[< Previous Question](#)[Next Question >](#)



Q37

Rockets use thrust forces which produces

A

constant acceleration

B

variable acceleration

C

constant velocity

D

linearly varying velocity

[< Previous Question](#)[Next Question >](#)



Q38

In a battery eliminator, the 220 Volts mains supply is stepped down to 11 volt, what is the transformation ratio?

A

1:20

B

20:1

C

1:2

D

2:5

[< Previous Question](#)[Next Question >](#)



Q39

A particle of mass 2 kg is in circular motion with velocity 5 m/s^2 , radius of path is 2 m what will be the work done by the centrifugal force in half cycle

A 100 J

B -100 J

C 0

D 50 J

[< Previous Question](#)[Next Question >](#)



Q40

A stationary wave setup in a pipe closed at one end, only odd harmonics are generated, which are given by the equation

A

$$f_n = (n \cdot v) / (4 \cdot l) \text{ where } n = 1, 3, 5, \dots$$

B

$$f_n = (n \cdot v) / (4 \cdot l) \text{ where } n = 1, 3, 5, \dots$$

C

$$f_n = (n \cdot v) / (4 \cdot l) \text{ where } n = 1, 2, 3, 4, 5, \dots$$

D

$$f_n = (n \cdot v) / (4 \cdot l) \text{ where } n = 1, 2, 3, 4, 5, \dots$$

[◀ Previous Question](#)[Next Question ▶](#)



Q41

An electron is moving along the line of force in magnetic field B with velocity u , then maximum force acting on the charge is given by

A

 Bue

B

 Bq/u

C

 Bu/q

D

0

[< Previous Question](#)[Next Question >](#)



Q42

A full wave rectifier is operating from 50 Hz mains. Fundamental frequency of ripple will be

A

100 Hz

B

25Hz

C

50Hz

D

200Hz

[< Previous Question](#)[Next Question >](#)



Q43

4000 Coulomb charges were passing from the wire for about 12 seconds. Estimate the current during this process?

A

333.3 ampere

B

333.33 volts

C

666.67 ampere

D

None of them

[< Previous Question](#)[Next Question >](#)



Q44

The linear momentum is increased by 10%, percentage change in the kinetic energy will be

A

0.21

B

0.11

C

0.22

D

0.1

[< Previous Question](#)[Next Question >](#)



Q45

Internal resistance of a battery is _____ ohm, if, $E=10V$, $V_t=9V$, $I=1A$

A

1

B

0.1

C

0.01

D

None of these

[◀ Previous Question](#)[Next Question ▶](#)



Q46

If radius is four times angular velocity is two times the linear velocity becomes

A

4

B

6

C

8

D

none of these

[< Previous Question](#)[Next Question >](#)



Q47

Consider a car is travelling for one hour. Which of the following trips have the same average velocity?

A

car travels 20 km due east and car travels 70 km due east

B

car travels 40 km due east, then turns around and travels 20 km due west and car travels 20 km due east

C

car travels 70 km due east and car travels 40 km due east, then turns around and travels 20 km due west

D

car travels 30 km due west, then turns around and travels 30 km due east and car travels 40 km due east, then turns around and travels 20 km due west

[< Previous Question](#)[Next Question >](#)



Q48

The energy input to an engine is 60 J, and the work it performs is 15 J. What fraction of the energy input is expelled to the cold reservoir?

A 0.25

B 75%

C 1

D impossible to determine

[◀ Previous Question](#)[Next Question ▶](#)



Q49

The photon when scattered from mirror its momentum becomes

A

double

B

half

C

remain same

D

zero

[< Previous Question](#)[Next Question >](#)



Q50

If the wavelength of a wave is 20 cm and its time period is T . What is the distance travelled by a crest on the wave in $1.25T$?

A 30 cm

B 25 cm

C 15 cm

D 40 cm

[< Previous Question](#)[Next Question >](#)



Q51

Lymph nodes may be located in the human body in the tissues of the:

A

stomach

B

thyroid gland

C

brain

D

groin and neck

[◀ Previous Question](#)

[Next Question ▶](#)



Q52

The part of chloroplast where CO₂ is fixed to manufacture sugar is?

A

stroma

B

grana

C

thylakoid

D

outer membrane

[< Previous Question](#)[Next Question >](#)



Q53

Which of the following is not a component of HIV?

A

RNA

B

protein

C

ribosomes

D

reverse transcriptase

[← Previous Question](#)

[Next Question →](#)



Q54

Garden snail belongs to which class of Mollusca?

A

Gastopoda

B

Cephalopoda

C

Myriapoda

D

None of them

Previous Question

Next Question



Q55

Which of the following structure is not present in all the bacteria?

A

cell membrane

B

chromatin

C

ribosome

D

capsule

[← Previous Question](#)

[Next Question →](#)



Q56

The protein contains ____ bonds

A

Inorganic bonds

B

peptide bonds

C

glucosidic bonds

D

covalent bonds

[< Previous Question](#)[Next Question >](#)



Q57

Which of the following is not found in series protostomia?

A

Annelida

B

Arthropoda

C

Mollusca

D

Echinodermata

Previous Question

Next Question



Q58

Spinal cord is the part of the:

A

Peripheral nervous system

B

Central nervous system

C

Autonomic nervous system

D

None of these

Previous Question

Next Question



Q59

Amoeboid movements and movement of cyclosis is due to?

A

microfilaments

B

microtubules

C

intermediate filaments

D

cytoskeleton

[← Previous Question](#)

[Next Question →](#)



Q60

Vascular Cambium initially appears as actively dividing cells between?

A

Primary Xylem and secondary xylem

B

Primary xylem and secondary phloem

C

Secondary xylem and secondary phloem

D

Primary xylem and primary phloem

Previous Question

Next Question



Q61

The inherited instructions an organism carries within its genome is it's?

A

phenotype

B

clone

C

recombination

D

genotype

[◀ Previous Question](#)

[Next Question ▶](#)



Q62

The path taken by the nerve impulses in a reflex is called a

A

Nerve cell

B

reflex arc

C

Receptor cells

D

Mixed nerve

[← Previous Question](#)

[Next Question →](#)



Q63

In photosynthesis dark reaction, is called so because

A

It occurs in dark.

B

It does not require light energy.

C

It cannot occur during daytime.

D

It occurs more rapidly at night.

[< Previous Question](#)[Next Question >](#)



Q64

Two species can avoid competition, and better use the environment's resources by occupying different?

A

adaptations

B

polymorphism

C

niches

D

specialization

[◀ Previous Question](#)

[Next Question ▶](#)



Q65

Which lobe is involved in short-term memory, speech, musical rhythm and some degree of smell recognition?

A

Frontal

B

Parietal

C

Temporal

D

Occipital

[< Previous Question](#)[Next Question >](#)



Q66

Each type of the principal type of sensation that we can experience e.g pain touch sight sound and so for this called a modality of?

A

regulation

B

coordination

C

control

D

sensation

[◀ Previous Question](#)[Next Question ▶](#)



Q67

In a bacterial cell, plasma membrane with all things present within it is called

A

Cytoplasmic matrix

B

Cytoplasm

C

Protoplast

D

Cell Structure

[< Previous Question](#)[Next Question >](#)



Q68

A mother is homozygous for blood type A and a father has blood type AB. Which of the following could describe their child's blood type?

A

A

B

O

C

A or AB

D

B

[← Previous Question](#)[Next Question →](#)



Q69

Octopus belongs to phylum mollusca because:

A

It has suckers and tentacles.

B

It has a soft body covered by a shell.

C

It has a soft, unsegmented body with a thin, flexible internal shell.

D

It has a soft, segmented body with a head and a foot.

[← Previous Question](#)

[Next Question →](#)



Q70

The main unit of the thick filament is:

A

myofibril

B

Z-line

C

myosin

D

actin

[◀ Previous Question](#)

[Next Question ▶](#)



Q71

All chromosomes other than sex chromosomes are called:

A

Autosomes

B

Allosomes

C

Microsomes

D

None of them

[◀ Previous Question](#)

[Next Question ▶](#)



Q72

What is the correct sequence of steps in cell fractionation?

A

Homogenization, centrifugation, separation.

B

Separation, homogenization, centrifugation.

C

Centrifugation, homogenization, separation.

D

Homogenization, separation, centrifugation.

[← Previous Question](#)

[Next Question →](#)



Q73

Biomolecules such as starch cellulose and glycogen yield which of the following upon hydrolysis?

A

Maltose

B

Sucrose

C

Glucose

D

Galactose

[< Previous Question](#)[Next Question >](#)



Q74

Reflex action is a type of:

A

Voluntary action

B

Involuntary action

C

Saltatory conduction

D

None of these

[← Previous Question](#)

[Next Question →](#)



Q75

Which of the following types of bacterial reproduction is most similar to mitosis?

A

transduction

B

transformation

C

binary fission

D

conjugation

[◀ Previous Question](#)

[Next Question ▶](#)



Q76

Vitamin which doesn't act as a coenzyme is?

A

vitamin c

B

vitamin b

C

vitamin b1

D

vitamin b2

[← Previous Question](#)

[Next Question →](#)



Q77

All of the following are true for platyhelminthes except?

A

Flatworms

B

Triploblastic

C

Bilateral symmetry

D

Coelomate

Previous Question

Next Question



Q78

Which is an organelle that helps the sperm to penetrate the ovum?

A

Megalis

B

Zona pellucida

C

Acrosome

D

both a and b

[← Previous Question](#)

[Next Question →](#)



Q79

Acrosome is filled with which of the following?

A

lipids

B

hormones

C

digestive enzymes

D

all of these

[◀ Previous Question](#)

[Next Question ▶](#)



Q80

The total number of amino acids that have been found in tissues and cells are?

A

250

B

200

C

20

D

170

[< Previous Question](#)[Next Question >](#)



Q81

Vitamins which are not stored in body are called?

A

fat soluble vitamins

B

minerals

C

fats

D

water soluble vitamins

[◀ Previous Question](#)

[Next Question ▶](#)



Q82

What is reduced during sugar production in photosynthesis?

A

ATP

B

NADH

C

carbon dioxide

D

oxygen

[< Previous Question](#)[Next Question >](#)



Q83

What is the basic unit of muscle fiber?

A

myofibril

B

Z-line

C

M-line

D

Fibroin

[← Previous Question](#)

[Next Question →](#)



Q84

Radula is a characteristic feature of:

A

Myriapods

B

Molluscs

C

Echinoderms

D

Cnidaria

[← Previous Question](#)

[Next Question →](#)



Q85

Each nasal cavity is subdivided into --- passageways in man.

A

1

B

2

C

3

D

4

[< Previous Question](#)[Next Question >](#)



Q86

The phage that causes the lysogenic cycle is?

A

virulent phage

B

lytic phage

C

temperate phage

D

both a and b

[< Previous Question](#)[Next Question >](#)



Q87

Polymorphism is a characteristic feature of which group of animals?

A

Cnidaria

B

Annelida

C

Platyhelminthes

D

Echinodermata

[◀ Previous Question](#)

[Next Question ▶](#)



Q88

It is suspected that this cell is prokaryotic. The presence of which of these cell structures would confirm that the cell is prokaryotic?

A Cytoplasm

B ribosomes

C flagella

D Peptidoglycan cell wall

[← Previous Question](#)

[Next Question →](#)



Q89

Mad cow disease is caused by which of the following?

A

prion

B

virus

C

bacteria

D

both a and b

[< Previous Question](#)[Next Question >](#)



Q90

Select the function/s of male reproductive system:

A

To produce enzymes

B

to transfer sperms to the female

C

to produce sperms

D

Both B and C are correct

Previous Question

Next Question



Q91

The wings of a bird and the wings of a beetle are considered?

A

taxonomic

B

phylogenetic

C

homologous

D

analogous

[◀ Previous Question](#)

[Next Question ▶](#)



Q92

High fever, cold, and cough with sputum production are symptoms of

A

emphysema

B

asthma

C

pneumonia

D

bronchitis

[← Previous Question](#)

[Next Question →](#)



Q93

How many compounds of tar of tobacco smoke are included in causing cancer?

A

2

B

5

C

8

D

More than 10

[< Previous Question](#)[Next Question >](#)



Q94

The stretch reflex, the Golgi tendon reflex, the crossed extensor reflex, and the withdrawal reflex are included in:

A

stretch reflex

B

spinal reflex

C

golgi tendon reflex

D

Crossed Extensor Reflex

[< Previous Question](#)[Next Question >](#)



Q95

For every 3 molecules of carbon dioxide in Calvin cycle how much G3P is produced?

A

6

B

2

C

4

D

8

[< Previous Question](#)[Next Question >](#)



Q96

The brain part involved in conscious activities is:

A

cerebral cortex

B

limbic system

C

Brain stem

D

thalamus

[← Previous Question](#)

[Next Question →](#)



Q97

Which of the following is NOT a method bacteria use for genetic recombination?

A

Conjugation

B

Transformation

C

Transduction

D

Binary Fission

[← Previous Question](#)

[Next Question →](#)



Q98

Which of the following is FALSE about concerning enzymes?

A

Substrates must bind the enzyme's active site in order to initiate its effects

B

Enzymes increase both the forward rate and reverse rate of a reaction

C

Enzymes are not destroyed in a reaction and can be used in the same reaction countless times

D

Enzymes increase the amount of product created in a reaction

[◀ Previous Question](#)[Next Question ▶](#)



Q99

Assuming that blood type is not a sex-linked trait, what is the probability that a mother with genotype "A/O" and a father with genotype "A/B" will have a child with type B blood?

A 50%

B 25%

C 75%

D 1

[← Previous Question](#)[Next Question →](#)



Q100

The experiment that simulated conditions thought to be present on the early earth

A

Hershey Chase experiment

B

Geiger Marsden experiment

C

Schiehallion experiment

D

Miller-Urey experiment

Previous Question

Next Question



Q101

A long polypeptide that is cut up to generate several small proteins

A

polyprotein

B

polymerase

C

polyisomerase

D

none of these

[◀ Previous Question](#)

[Next Question ▶](#)



Q102

Which hormone is involved in opening and closing of stomata?

A

citric acid

B

Oxaloacetic acid

C

abscisic acid

D

None of these

[◀ Previous Question](#)

[Next Question ▶](#)



Q103

The oldest mineral discovered so far is which of the following, which dates back to 4.4 billion years.

A

iron

B

zircon

C

diamond

D

cadmium

[< Previous Question](#)[Next Question >](#)



Q104

A human cell from the ovary has 22 chromosomes and an X chromosome. It is which of the following?

A

egg

B

sperm

C

somatic cell

D

gamete

[< Previous Question](#)[Next Question >](#)



Q105

Which molecule passes the mitochondrial membrane to begin the krebs cycle?

A

ATP

B

ADP

C

NADH

D

Acetyl coA

[< Previous Question](#)[Next Question >](#)



Q106

A common polyhedral capsid shape of viruses is a?

A

pentagon

B

cube

C

icosahedron

D

pyramid

[◀ Previous Question](#)

[Next Question ▶](#)



Q107

Ascaris is characterized by which of the following?

A

Presence of true coelom and metamerism

B

Presence of true coelom but the absence of metamerism

C

Absence of true coelom but the presence of metamerism

D

Absence of true coelom and metamerism

Previous Question

Next Question



Q108

Normal human blood is about:

A

15 ml/100 ml of blood

B

19.6 ml/100 ml of blood

C

20 ml/ 100 ml of blood

D

200 ml/100 ml of blood

[◀ Previous Question](#)[Next Question ▶](#)



Q109

Uterus opens into the vagina through:

A

uterus

B

cervix

C

oviduct (fallopian tube)

D

ovary

[◀ Previous Question](#)

[Next Question ▶](#)



Q110

Which statement describes an incorrect difference between a plant cell and a bacterial cell?

A

Bacterial cell has 70S ribosomes whereas a plant cell has 80S ribosomes.

B

Bacterial cell divides by binary fission whereas a plant cell divides by mitosis.

C

Bacterial cells do not have a nuclear membrane whereas plant cells do.

D

None of the above.

[← Previous Question](#)

[Next Question →](#)



Q111

BF₃ is an electron pair acceptor and complete its octet by accepting

A

an electron

B

pair of electron

C

3 electron

D

4 electron

[< Previous Question](#)[Next Question >](#)



Q112

Rate determining step of a chemical reaction which occur in more than one step depends upon the

A

fastest step

B

Slowest Step

C

catalyst used

D

Temperature of reaction

[< Previous Question](#)[Next Question >](#)



Q113

When an electron remains between orbit, its momentum is

A

dequantized

B

quantized

C

emitted

D

changes always

[< Previous Question](#)[Next Question >](#)



Q114

Nucleophilic addition reactions of carbonyl compounds can be catalyzed by_____?

A

Acid

B

Base

C

Water

D

Both acid and base

[< Previous Question](#)[Next Question >](#)



Q115 The substance that is attached to the enzyme at specific place and converted into product is called as?

A Co-factor

B Iso-zyme

C Active site

D Substrate

[← Previous Question](#)

[Next Question →](#)



Q116

Which type of movement is shown by the atoms of the solid?

A

Translational motion

B

Vibrational motion

C

Rotational motion

D

Linear motion

[◀ Previous Question](#)

[Next Question ▶](#)



Q117

The product in $\text{S}_{\text{N}}2$ reaction is formed with_____?

A

Inversion in configuration

B

Retention in configuration

C

50% retention in configuration

D

50% inversion in configuration

[< Previous Question](#)[Next Question >](#)



Q118

Which alkali metal only combine with Nitrogen?

A

Li

B

Fr

C

Cs

D

K

[< Previous Question](#)[Next Question >](#)



Q119

Fossil fuels are produced due to_____?

A

Fast decomposition of organic matter

B

Decomposition of plants

C

Decomposition of animals

D

Biochemical decomposition of dead organic matter

[◀ Previous Question](#)

[Next Question ▶](#)



Q120 Intermolecular forces are also called as _____?

A Chemical bond

B Intramolecular force

C Van der waal forces

D Strong forces

[◀ Previous Question](#)

[Next Question ▶](#)



Q121 Which of the following gives Markovnikov's product with Propene?

A HBr

B $\text{H}_2\text{SO}_4/\text{H}_2\text{O}$

C HBr

D All of these

[← Previous Question](#)

[Next Question →](#)



Q122

Representing Reaction in Voltaic cell symbol used for salt bridge is

A $\cap$ B $\ddot{}$ C $\equiv$ D $\parallel$ [◀ Previous Question](#)[Next Question ▶](#)



Q123

ΔH_f° is the standard enthalpy change of which of the following process?

A

When 1 mol of compound formed from its elements

B

When 1 mole of substance is dissolved to make a solution

C

When 1 mole of Reactants are converted into products

D

When 1 mole of salt is formed

[< Previous Question](#)[Next Question >](#)



Q124 Nucleoprotein are _____ proteins which transfer heredity information from one generation to other.

A Transport proteins

B Structural proteins

C Genetic proteins

D Regulatory proteins

[◀ Previous Question](#)

[Next Question ▶](#)



Q125

The strength of London forces depends on size of

A

electrons

B

electronic cloud

C

lone pair on an atom

D

poles of atoms

[< Previous Question](#)[Next Question >](#)



Q126

Coordination number of Na in NaCl is

A

4

B

6

C

8

D

3

[< Previous Question](#)[Next Question >](#)



Q127

Which of the following is typical transition metal?

A

Sc

B

Y

C

Cd

D

Co

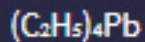
[◀ Previous Question](#)[Next Question ▶](#)



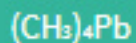
Q128

Alkyl halide react with Sodium lead alloy, which of the following is correct formula of tetramethyl lead?

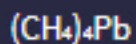
A



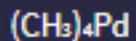
B



C



D

[< Previous Question](#)[Next Question >](#)



Q129

The unit of electron affinity is

A

J/mol

B

KJ/mol

C

KJ/atom

D

J/atom

[< Previous Question](#)[Next Question >](#)



Q130

Maximum Hydrogen bonding is found in

A

chlorine

B

Ammonia

C

water

D

hydrochloric acid

[◀ Previous Question](#)[Next Question ▶](#)



Q131

Addition of ammonia and its derivative catalyze by_____?

A

Acid

B

Base

C

Oxidizing agents

D

Pd/C

[< Previous Question](#)[Next Question >](#)



Q132

Which of the following is an example of Monocarboxylic acid ?

A

Oxalic acid

B

Methanoic acid

C

Glutaric acid

D

Adipic acid

[< Previous Question](#)[Next Question >](#)



Q133

The rate equation is an

A

Experimental expression

B

Theoretical expression

C

based on Hit and Trail

D

All Of these

[◀ Previous Question](#)[Next Question ▶](#)



Q134

Polymerization of ethene produces which of the following polymer?

A

Polyvinyl

B

Polethyl

C

Polyethylene

D

Polyethoxy

[< Previous Question](#)[Next Question >](#)



Q135

Which of the species has a permanent dipole moment?

A

SF4

B

SiF4

C

BF3

D

XeF4[< Previous Question](#)[Next Question >](#)



Q136

The geometrical isomers in which similar groups on double bond carbon atoms are present on opposite sides are called as___?

A

Trans isomers

B

Alkanes

C

Cis isomer

D

Positional isomers

[< Previous Question](#)[Next Question >](#)



Q137 Kekule's formula shows benzene _____?

A Highly saturated

B Highly unsaturated

C Give Substitution reaction

D Give elimination reaction

[◀ Previous Question](#)

[Next Question ▶](#)



Q138

The first ionization potential of alkaline earth metal is greater than alkali metals because

A

They are more reactive

B

They have greater atomic radii

C

They have smaller atomic sizes

D

All

[< Previous Question](#)[Next Question >](#)



Q139

The value of energy obtained for the electron in the n th orbit of hydrogen atom is in

A

Joules

B

Joules/atom

C

Kilojoules

D

Kilojoules/atom

[< Previous Question](#)[Next Question >](#)



Q140

Formaldehyde polymerizes to form ?

A

Bakelite

B

Paraldehyde

C

Metaformaldehyde

D

All of these

[◀ Previous Question](#)[Next Question ▶](#)



Q141 Unit for rate of reaction is

A Mole / litre

B Moles / gram

C Moles / Second

D moles/dm³ s⁻¹

[← Previous Question](#)

[Next Question →](#)



Q142

Which of the carboxylic acid is used in medicine as local irritant;

A

formic acid

B

acetic acid

C

benzoic acid

D

amino acid

[< Previous Question](#)[Next Question >](#)



Q143

One atmosphere is the force of _____ long column of mercury on an area of 1cm^2 at c

A

76cm

B

76mm

C

76dm

D

76pm

[◀ Previous Question](#)[Next Question ▶](#)



Q144

A naphthol has

A

Alcoholic OH

B

-CHO

C

-COOH

D

Phenolic - OH

[< Previous Question](#)[Next Question >](#)



Q145

According to Bohr's theory Electron should move _nearer to nucleus in an orbit of _radii

A

slower, smaller

B

faster, smaller

C

faster, bigger

D

slower, bigger

[< Previous Question](#)[Next Question >](#)



Q146

Which of the following is a poor leaving group in nucleophilic substitution reactions?

A Cl^-

B Br^-

C I^-

D $^- \text{OH}$

[◀ Previous Question](#)

[Next Question ▶](#)



Q147

Proteins are _____ in structure ?

A

Two dimensional

B

Three dimensional

C

Uni-dimensional

D

None of these

[◀ Previous Question](#)

[Next Question ▶](#)



Q148

Reaction of Sodium with water is an example of

A

Reversible reaction

B

Endothermic

C

Irreversible

D

Slow

[< Previous Question](#)[Next Question >](#)



Q149

How many times a covalent bond is stronger than H-Bond?

A

10

B

12

C

20

D

2

[< Previous Question](#)[Next Question >](#)



Q150

Cyclic compounds consist of except?

A

Alicyclic

B

Aromatic

C

Acyclic compounds

D

Carbocyclic compounds

[◀ Previous Question](#)[Next Question ▶](#)



Q151

Chemical reactions involve change in heat energy and the study is called

A

Electrochemistry

B

Biochemistry

C

Thermochemistry

D

Analytical Chemistry

[< Previous Question](#)[Next Question >](#)



Q152

Number of molecules in one dm³ of water will be almost

A

 $18 \times 6.02 \times 10^{23}$

B

 $55.6 \times 6.022 \times 10^{23}$

C

 $18 \times 6.2 \times 10^{23}$

D

 $2 \times 6.2 \times 10^{23}$ [< Previous Question](#)[Next Question >](#)



Q153

In Down Cells Cathode is made up of

A

Graphite

B

Copper

C

Iron

D

Inert material

[◀ Previous Question](#)[Next Question ▶](#)



Q154

number of isomers of C_4H_1 is:

A

2

B

4

C

6

D

5

[◀ Previous Question](#)[Next Question ▶](#)



Q155 Different type of hybridization takes place depending upon _____ of orbital's participating in hybridization

A number

B nature

C structure

D both A & B

[← Previous Question](#)

[Next Question →](#)



Q156

f-block elements are called ?

A

inner transition

B

outer transition

C

both

D

none

[◀ Previous Question](#)[Next Question ▶](#)



Q157

Ethyne has which hybridization?

A

 sp^3

B

 sp^2

C

 sp

D

 sp^2d [< Previous Question](#)[Next Question >](#)



Q158 Carboxylase are example of which type of enzyme:

A Hydrolases

B Lyases

C Transferases

D Ligases

[◀ Previous Question](#)

[Next Question ▶](#)



Q159

The most symmetrical crystal system

A

triclinic

B

tetragonal

C

cubic

D

rhombohedral

[◀ Previous Question](#)[Next Question ▶](#)



Q160

At which of the following temperature standard enthalpies are measured?

A

373K

B

298K

C

350K

D

All of these

[< Previous Question](#)[Next Question >](#)



Q161 First step in the $\text{S}_{\text{N}}1$ reaction is_____?

A Dehydration

B Protonation

C Ionization

D Attack of nucleophile and departure of leaving group

[◀ Previous Question](#)

[Next Question ▶](#)



Q162 Iodoform test is performed to distinguish between

A alcohols and phenols

B methanol and ethanol

C primary and secondary alcohols

D phenols and ethers

[◀ Previous Question](#)

[Next Question ▶](#)



Q163

Boiling point of hydrides of 4th period is larger than _____?

A

5th period

B

3rd period

C

6th period

D

7th period

[◀ Previous Question](#)[Next Question ▶](#)



Q164

The peaks forms in a mass spectrograph shows number of _____ of an element

A

electrons

B

isotopes

C

protons

D

neutrons

[< Previous Question](#)[Next Question >](#)



Q165

It ____ now.

A

rains

B

is raining

C

was raining

D

has been raining

[◀ Previous Question](#)[Next Question ▶](#)



Q166

John _____ to be a doctor.

A

wants

B

wanting

C

is wanting

D

have wanted

[◀ Previous Question](#)[Next Question ▶](#)



Q167 How are you doing? I'm _____ to meet you.

A calm

B lovely

C pleased

D helpful

[◀ Previous Question](#)

[Next Question ▶](#)



Q168

I found this bangle (A) while digging (B) in the backyard.(C) I don't know who it belonged to. (D)

A

I found this bangle

B

while digging

C

in the backyard.

D

I don't know who it belonged to.

Previous Question

Next Question



Q169

Last Saturday my father _____ (take) my friends and me to the circus.

A

take

B

took

C

will take

D

has taken

[◀ Previous Question](#)[Next Question ▶](#)



Q170

Get lost.

A

Declarative

B

Imperative

C

Interrogative

D

Exclamatory

[◀ Previous Question](#)

[Next Question ▶](#)



Q171

A lot of houses _____ collapsed due to the the storm.

A

has

B

are

C

have

D

were

[< Previous Question](#)[Next Question >](#)



Q172

In most countries, children start primary school _____ the age of six.

A

in

B

on

C

at

D

to

[◀ Previous Question](#)[Next Question ▶](#)



Question 173/210

Q173

jovial

A

merry

B

sad

C

sombre

D

laborious

Previous Question

Next Question



Q174

Choose the correct sentence.

A

My g.p. is called Dr. Sajjad.

B

My g.p. is called Dr. sajjad.

C

My G.P. is called Dr. Sajjad.

D

My G.P, is called Dr. Sajjad.

[◀ Previous Question](#)[Next Question ▶](#)



Q175

Choose the correct spelling of the word

A

benifet

B

benefet

C

benefit

D

benifit

[◀ Previous Question](#)

[Next Question ▶](#)



Q176

He _____ he is above playing with us.

A

think

B

thinks

C

is thinking

D

has thinking

[◀ Previous Question](#)[Next Question ▶](#)



Q177

She _____ her office by 9 a.m. daily.

A

reach

B

reaches

C

reached

D

reaching

[< Previous Question](#)[Next Question >](#)



Q178

It was so quiet you _____ (can) hear a pin drop.

A

can

B

could

C

shall

D

will

[◀ Previous Question](#)[Next Question ▶](#)



Q179

She is a successful writer.

A

Declarative

B

Imperative

C

Interrogative

D

Exclamatory

[◀ Previous Question](#)

[Next Question ▶](#)



Q180

Choose the correct spelling of the word

A

excellant

B

excalant

C

excellent

D

excallent

[← Previous Question](#)

[Next Question →](#)



Q181

Everyone who was injured (A)/ in the accident (B)/ was taken (C)/ to the hospital (D).

A

Everyone who was injured

B

in the accident

C

was taken

D

to the hospital

[< Previous Question](#)[Next Question >](#)



Q182

The book is about _____ man who lives on _____ small island.

A

a... an

B

a...a

C

a....the

D

an...an

[< Previous Question](#)[Next Question >](#)



Q183

Choose the correct sentence.

A

Mrs Sajjad: who was sitting behind the desk, gave me a big smile.

B

Mrs Sajjad who was sitting behind the desk gave me a big smile.

C

Mrs Sajjad, who was sitting behind the desk, gave me a big smile.

D

Mrs Sajjad, who was sitting behind the desk gave me a big smile?

[◀ Previous Question](#)[Next Question ▶](#)



Q184

Choose the correct sentence.

A

I did not accompanied them.

B

I do not accompanied them.

C

I does not accompany them.

D

I did not accompany them.

[← Previous Question](#)

[Next Question →](#)



Q185

Statement. All clocks are watches. Some clocks are alarms. Conclusion I Some alarm watches. II All watches are alarm.

A

Only conclusion (I) follows

B

Only conclusion (II) follows

C

Both conclusions follow

D

Both of them do not follow

[◀ Previous Question](#)[Next Question ▶](#)



Q186

Which letter lies in the middle of word Quality?

A

L

B

A

C

U

D

Y

[← Previous Question](#)

[Next Question →](#)

Q187

Statement The Management of School M has decided to give free breakfast from next academic year to all the students in its primary section through its canteen even though they will not get any government grant. Courses of Action (I) The school will have to admit many poor students who will seek admission for the next academic year. (II) The canteen facilities and utensils have to be checked and new purchases to be made to equip it properly. (III) Funds will have to be raised to support the scheme for years to come.

A

Only II and III follows

B

Only III and I follow

C

Only I and II follow

D

Only I follows



Q188

According to Oxfam report, Every Minute, _____ People Die of Hunger In The World?

A

10

B

11

C

15

D

Both A and B

[< Previous Question](#)[Next Question >](#)



Q189

Complete the series BXM, EUP, HRS, _.

A

XZY

B

RPN

C

VTU

D

KOV

Previous Question

Next Question



Q190

I. Three ministers have quitted their job in Punjab. II. The ministers are not being accommodated with adequate resources.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect.

C

Both statements I and II are independent causes

D

Both statements I and II are the effects of independent cause.

[◀ Previous Question](#)[Next Question ▶](#)



Q191 Complete the series A3.3, B6.6, C9.9, ____?

A D13.4

B D13.2

C D13.1

D D13.2

[◀ Previous Question](#)

[Next Question ▶](#)



Q192

Statement: Rural and semi urban areas in the country have been suffering due to load shedding for quite some time. If the government is not able to overcome the power crisis, load shedding will be extended even to the urban areas.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect

C

Both the statements I and II are independent causes

D

Both the statements I and II are effects of some common cause

[< Previous Question](#)[Next Question >](#)



Q193

FESCO stands for _____

A

Faizabad Electricity Supply Company

B

Frontier Electricity Supply Company

C

Faisalabad Electric Supply Company

D

Federal Electric Supply Company

[◀ Previous Question](#)

[Next Question ▶](#)

Q194

Children are in pursuit of a dog whose leash has broken. James is directly behind the dog. Ruby is behind James. Rachel is behind Ruby. Max is ahead of the dog walking down the street in the opposite direction. As the children and dog pass, Max turns around and joins the pursuit. He runs in behind Ruby. James runs faster and is alongside the dog on the left. Ruby runs faster and is alongside the dog on the right. Which child is directly behind the dog?

A James

B Ruby

C Rachel

D Max



Q195

What is the function of the fluid secreted by sertoli cells?

A

provides liquid medium

B

Provides protection to sperms

C

Provides nourishment to sperms

D

All A,B and C are correct

Previous Question

Next Question



Q196

If $^{238}_{94}\text{Pu}$ decay an alpha particle the new atomic number and mass number are

A 234,90

B 234,92

C 231,97

D none of these

[◀ Previous Question](#)[Next Question ▶](#)



Q197

What is the chemical characteristic of auxins?

A

Indole propionic acid

B

Indole carboxylic acid.

C

Indole acetaldehyde

D

Indole acetic acid.

[← Previous Question](#)

[Next Question →](#)



Q198

A car of mass M is moving with speed v . The brake of mass m and specific heat capacity c , is used to stop the car. If half of the kinetic energy of the car is absorbed by the brake, than what is the increase in temperature of the brake?

A

$$Mv^2 \text{ ----- } 4mc$$

B

$$Mv^2 \text{ ----- } 2mc$$

C

$$mv^2 \text{ ----- } 4Mc$$

D

$$mv^2 \text{ ----- } 2Mc$$

[< Previous Question](#)[Next Question >](#)



Q199

A full wave rectifier passes _____ into positive cycles

A

lower half cycle

B

upper half cycle

C

both cycles

D

none of them

[◀ Previous Question](#)[Next Question ▶](#)



Q200

$1/C_{\text{equ}} = 1/C_1 + 1/C_2 + 1/C_3 + \dots + 1/C_n$ is the combination in

A

Series

B

Parallel

C

Both of them

D

None of them

[◀ Previous Question](#)[Next Question ▶](#)



Q201

All of the following are continuously varying traits except?

A

Kernel colour in wheat

B

Skin colour in humans

C

Height in humans

D

Tongue rolling in humans

[◀ Previous Question](#)

[Next Question ▶](#)



Q202

Secondary cell wall is absent in _____.

A

Xylem

B

Phloem

C

Meristems

D

All of them possess secondary cell walls.

[◀ Previous Question](#)[Next Question ▶](#)



Q203

The inflammation of bronchi or bronchioles is known as

A

emphysema

B

asthma

C

pneumonia

D

bronchitis

[← Previous Question](#)

[Next Question →](#)



Q204

The break down of molecular ions from natural products give important information about

A

size

B

position

C

shape

D

structure

[< Previous Question](#)[Next Question >](#)



Q205

The conversion of Nitrogen to ammonia or nitrogenous compounds is called

A

Nitrification

B

Nitrogen Fixation

C

Denitrification

D

Assimilation

[← Previous Question](#)

[Next Question →](#)



Q206

Self inductance varies with the applied current in coil as

A

 I^2

B

 $1/I$

C

 I

D

remains unchanged

[◀ Previous Question](#)[Next Question ▶](#)



Q207

The increase in the capacitance of a capacitor due to the presence of dielectric is due to:...

A

electric polarization of dielectric

B

density of dielectric

C

volume of dielectric

D

magnetic dipole moment

[< Previous Question](#)[Next Question >](#)



Q208

The glycine generated during photorespiration enters:

A

Glyoxysomes

B

Mitochondria

C

Peroxisomes

D

Ribosomes

[< Previous Question](#)[Next Question >](#)



Q209

Oxaloacetate combines with which molecule to enter the krebs cycle again?

A

ATP

B

NADPH

C

FAD

D

Acetyl coA

[◀ Previous Question](#)

[Next Question ▶](#)



Q210

The animals in which there are separate male and female individuals are called?

A

unisexual

B

bisexual

C

asexual

D

hermaphrodite

[◀ Previous Question](#)

[Next Question ▶](#)